

## Recombinant Human SMYD1, FLAG-tagged

Cat. No. Smyd1-73H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human Smyd1 (accession number NP_938015.1) was expressed in Sf9 cells and contains an N-terminal FLAG tag with an observed molecular weight of 58.3 kDa.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	SET and MYND domain-containing protein 1 (Smyd1) is a member of the Smyd family of histone methyltransferases that possesses H3K4 methyltransferase activity. It has also been shown to act as a transcriptional repressor. Studies suggest that Smyd1 may play a critical role in cardiomyocyte differentiation and cardiac morphogenesis and that it also may have a function in skeletal muscle development.
<b>Form</b>	20 mM Tris-HCl pH 7.4, 150 mM NaCl and 20% glycerol.
<b>Bio-activity</b>	Not known. May methylate non-histone substrates.
<b>Applications</b>	Enzyme kinetics, inhibitor screening, and selectivity profiling.
<b>Storage</b>	Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
<b>Concentration</b>	0.4 mg/ml

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## GENE INFORMATION

<b>Gene Name</b>	SMYD1 SET and MYND domain containing 1 [ Homo sapiens ]
<b>Official Symbol</b>	Smyd1
<b>Synonyms</b>	SMYD1; SET and MYND domain containing 1; SET and MYND domain-containing protein 1; BOP; KMT3D; ZMYND22; CD8 beta opposite; zinc finger, MYND domain containing 18; ZMYND18;
<b>Gene ID</b>	150572
<b>mRNA Refseq</b>	NM_198274
<b>Protein Refseq</b>	NP_938015
<b>MIM</b>	606846
<b>UniProt ID</b>	Q8NB12
<b>Chromosome Location</b>	2p11.1
<b>Pathway</b>	Heart Development, organism-specific biosystem;
<b>Function</b>	DNA binding; metal ion binding; transcription corepressor activity; zinc ion binding;

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